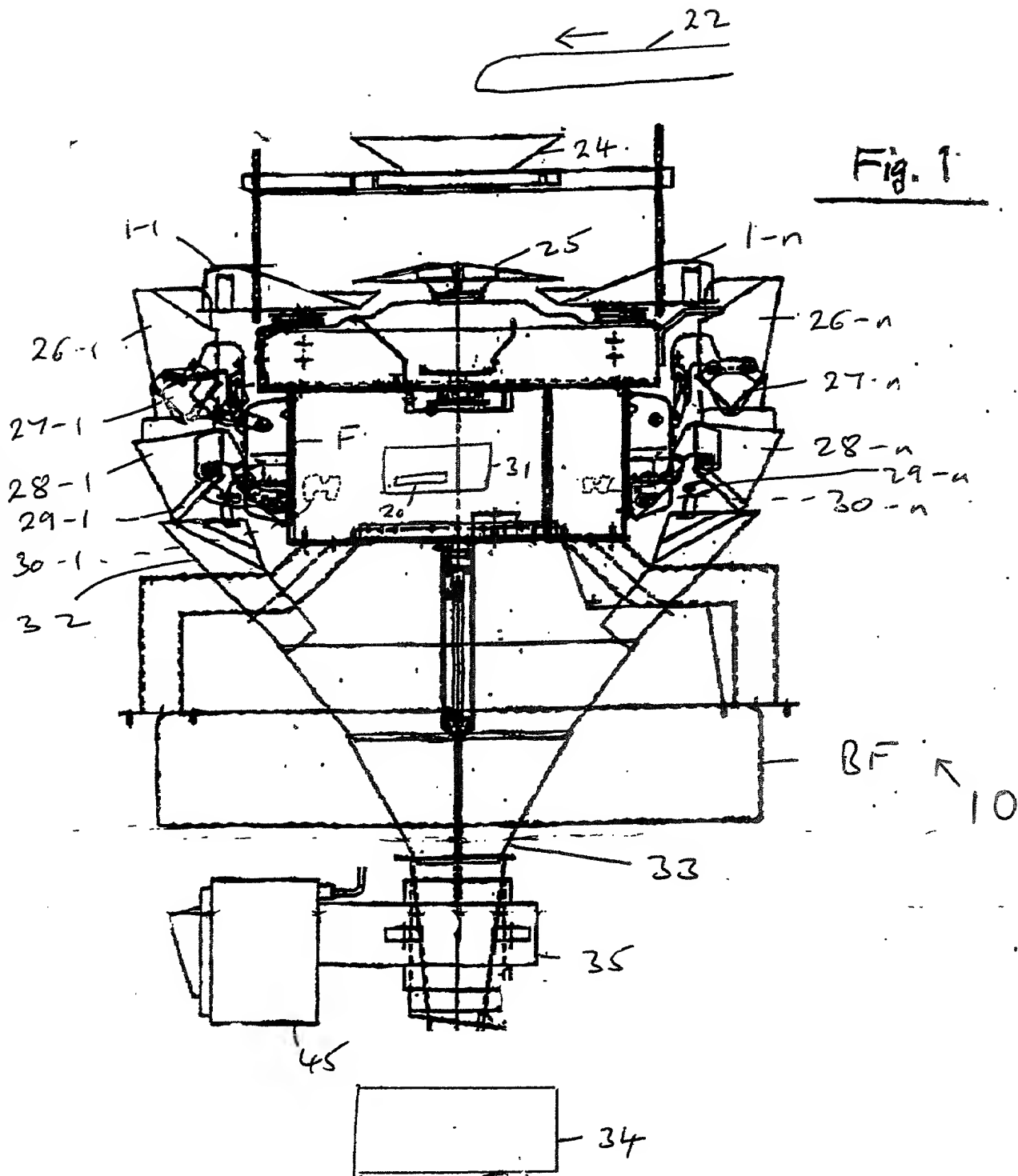


FIG. 1



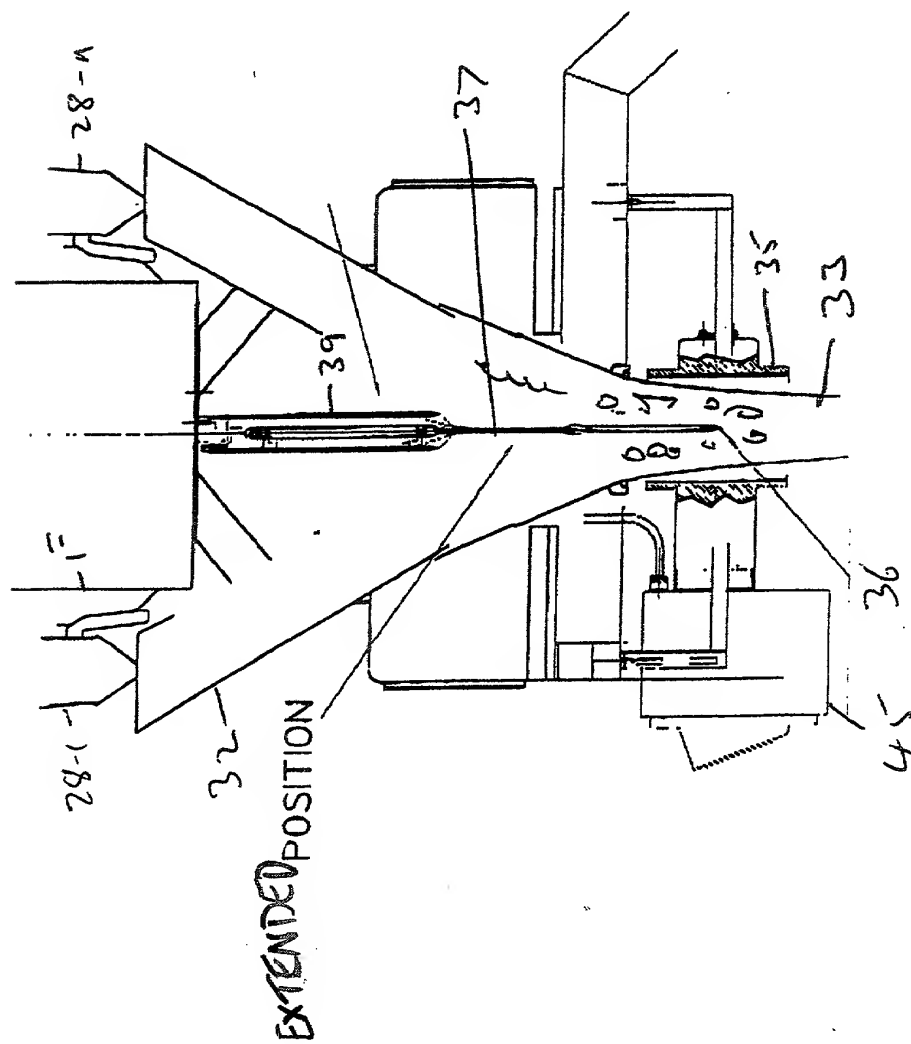


FIG. 2A

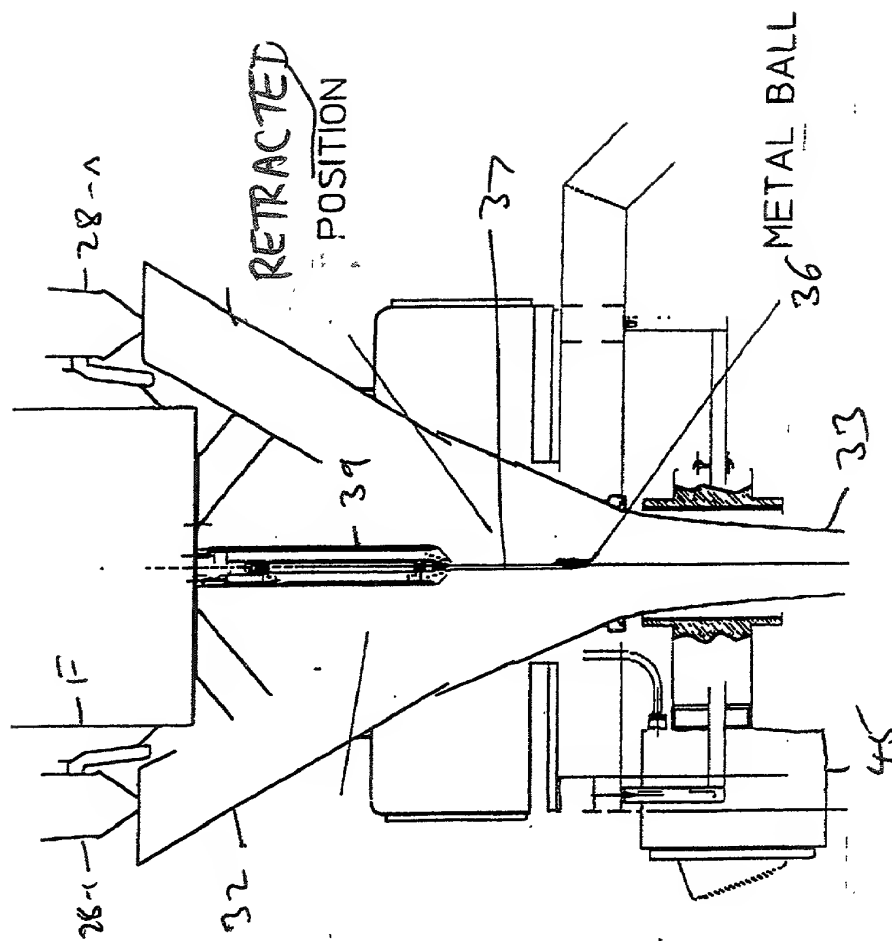


FIG. 2B

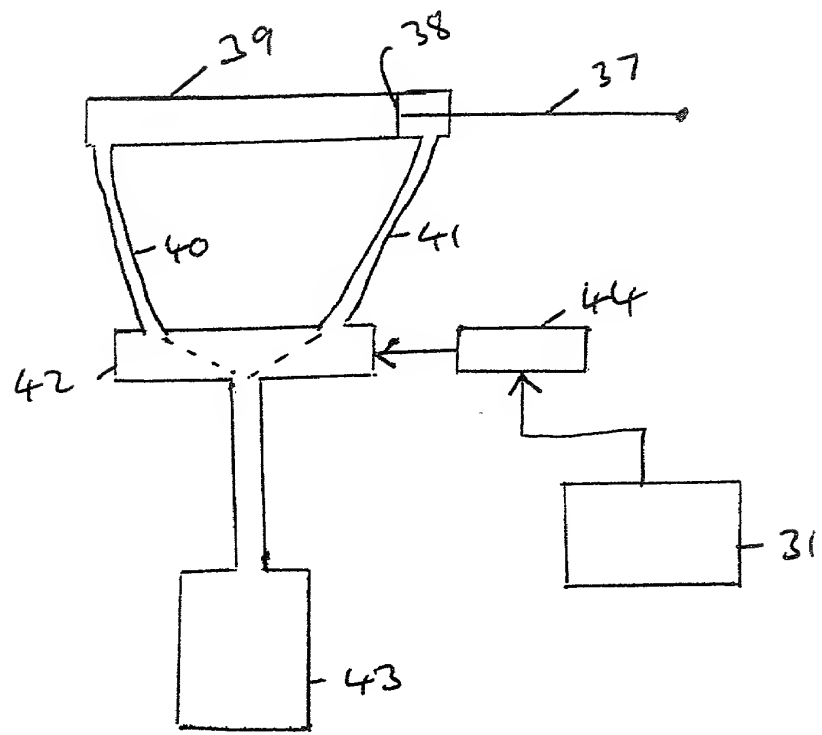


FIG 4

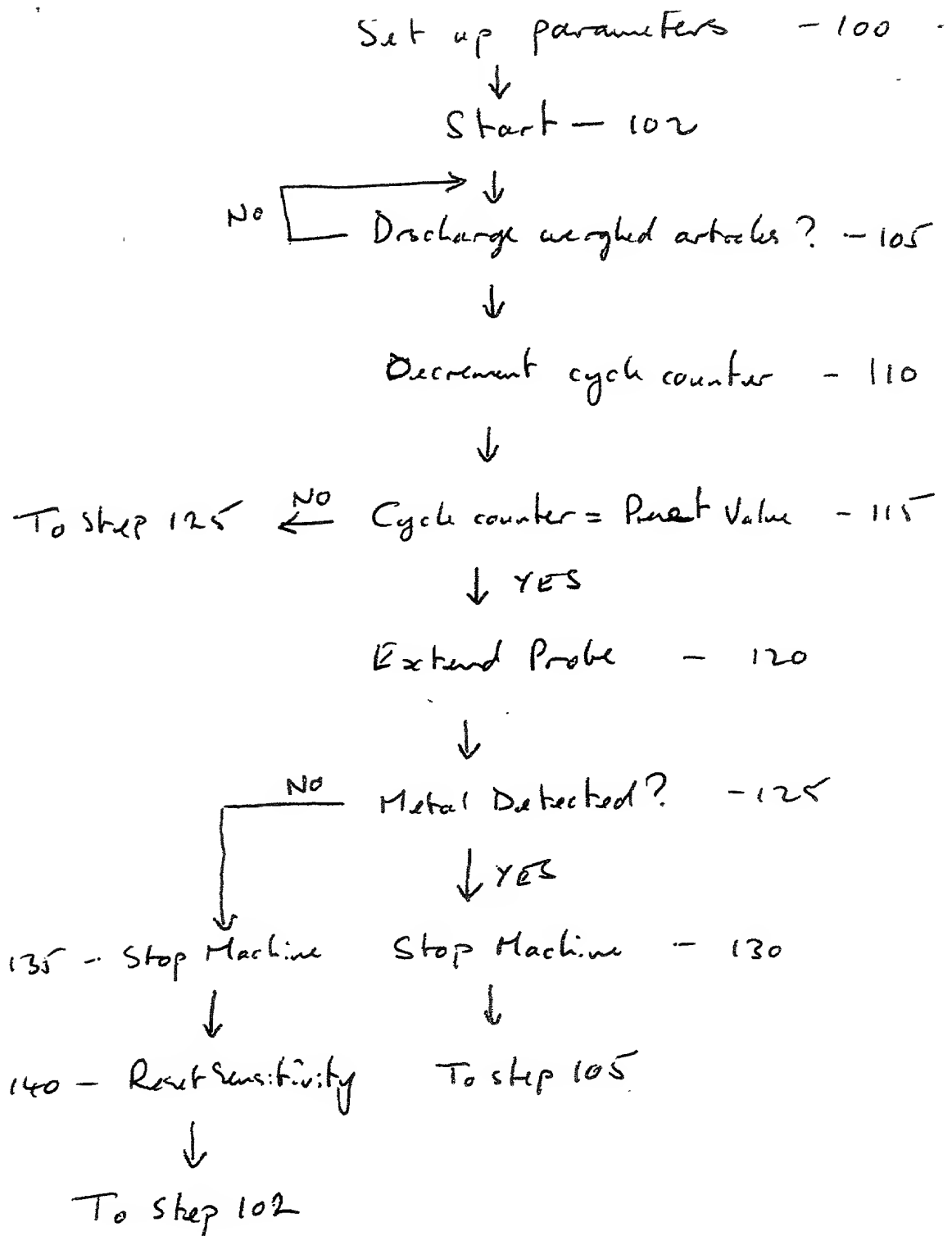
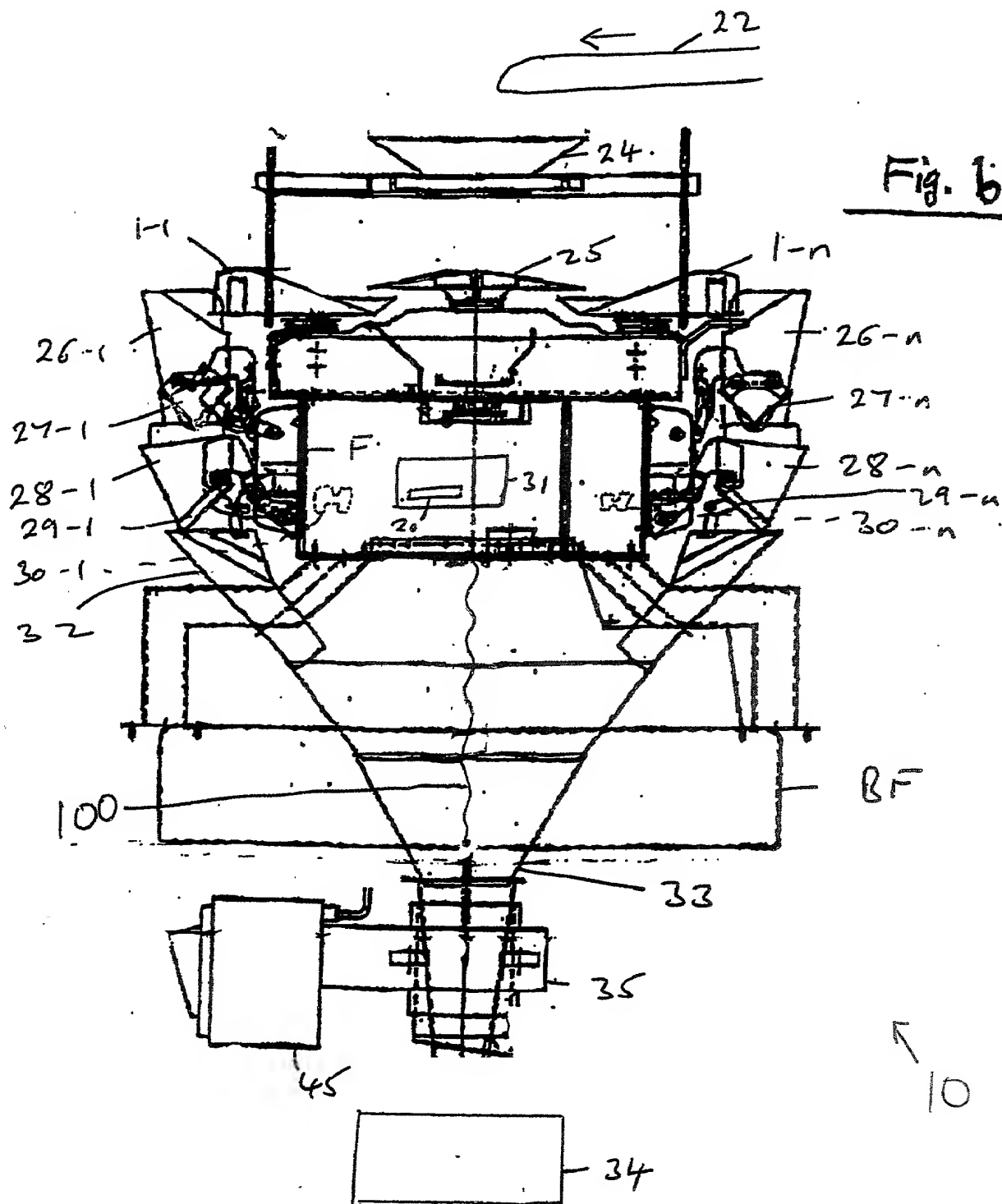


FIG 5



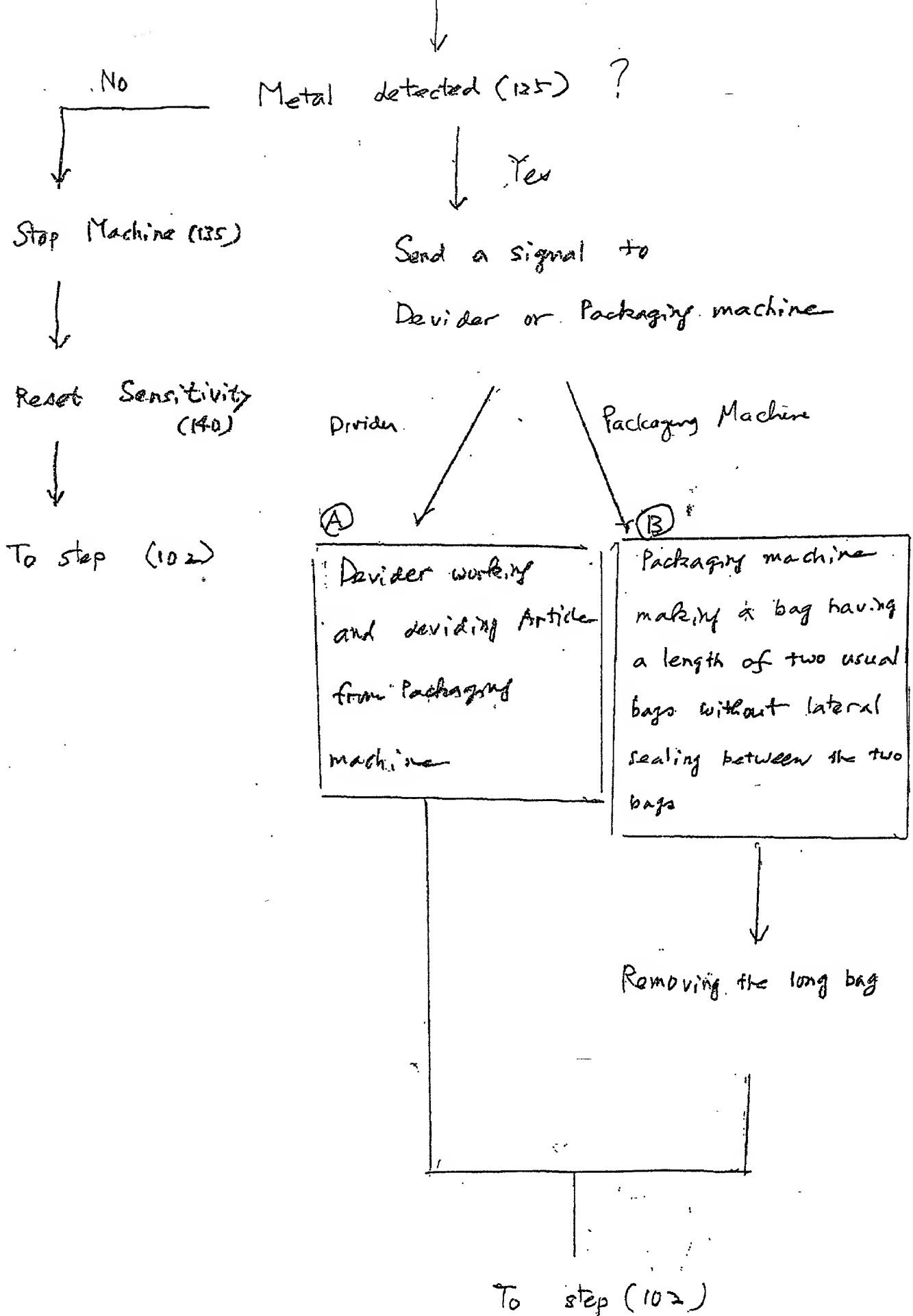


FIG. 7

To step 125 $\xleftarrow{\text{No}}$ Cycle counter $\xrightarrow{\text{Preset Value (115)}}$

Yes

Receiving Discharge signal
from weighing machine

A

Extending and moving Probe,
matching the timing of falling Article
at the same speed as
Article falling speed

10

Extending Probe at a
predetermined time
after discharge signal
and moving Probe between
two Articles

Metal detected? (125)

FIG. 8